



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

Yoshihiro Takai et al.

Serial No.: 10/037,477

Filed: January 2, 2002

For: METHOD AND APPARATUS FOR
IRRADIATING A TARGET

Group Art Unit: 2882

Examiner: Not Yet Assigned

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AMENDMENT TRANSMITTAL

Commissioner for Patents
Washington, D.C. 20231

Sir:

Transmitted herewith is a Preliminary Amendment for the above-identified application.

CERTIFICATE OF EXPRESS MAILING
(37 C.F.R. §1.10)

I hereby certify that this paper (along with any referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as 'Express Mail Post Office To Addressee' in an envelope addressed to the Commissioner for Patents, Washington, D.C. 20231.

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I. THE FILING AND CLAIM FEES HAVE BEEN CALCULATED AS SHOWN
BELOW:

☐ Applicant claims small entity status pursuant to 37 CFR § 1.27

BASIC FILING FEE:						\$740.00
Total Claims	33	-	20	=	13	x \$18.00 \$234.00
Independent Claims	5	-	3	=	2	x \$84.00 \$168.00
Multiple Dependent Claims	\$280	(if applicable)				<input type="checkbox"/> \$0.00
TOTAL OF ABOVE CALCULATIONS						\$1,142.00
Reduction by ½ for Filing by Small Entity, if applicable, as asserted above. Note 37 CFR §§ 1.9, 1.27, 1.28.						<input type="checkbox"/> \$0.00
Misc. Filing Fees (Recordation of Assignment -- \$40)						\$0.00
TOTAL FEES DUE HERewith						\$1,142.00

☐ A check in the amount of ____ is enclosed to cover the above fee(s).

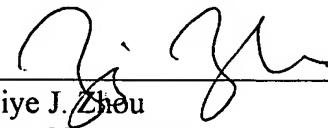
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Respectfully submitted,

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By:


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Patent
270/234

APPENDIX A

MARKED UP VERSION OF AMENDED PARAGRAPH IN THE SPECIFICATION

[0024] In accordance an alternative embodiment of the present invention, the radiation beam generated by radiation source 12 serves as both a radiation treatment beam and an image forming beam. Apparatus 20 includes an image detector (not shown in Fig. 2) for detecting the images of the target or fiducial markers on the patient formed by the radiation beam generated by radiation source 12. In a typical radiation treatment therapy, the radiation beam generated by radiation source 12 is a high energy X-ray beam at an MV energy spectrum. On the other hand, the image beam generated by image beam source 11A or 11B typically has a kV energy spectrum. A system using X-ray radiation at different energy spectrums for imaging is described in U.S. Patent Application Serial No. 10/033,327 [___/_____] (Attorney Docket No. 05513.P003)] entitled "RADIOTHERAPY APPARATUS EQUIPPED WITH AN ARTICULABLE GANTRY FOR POSITIONING AN IMAGING UNIT" and filed on November 2, 2001 and U.S. Patent Application Serial No. 10/013,199 [___/_____] (Attorney Docket No. 261/132)] entitled "X-RAY IMAGE ACQUISITION APPARATUS" and filed on November 2001, which are incorporated herein by reference in their entireties.

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